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1	0	719.310,315,316,328.ccls. and instance	USPAT;	2004/08/05
		and single near8 (media or audio or	US-PGPUB	14:44
		video)		
2	0	719.310,315,316,328.ccls. and single	USPAT;	2004/08/05
_		near8 (media or audio or video)	US-PGPUB	14:44
3	69	719/310,315,316,328.ccls. and instance	USPAT;	2004/08/05
		and single near8 (media or audio or video)	US-PGPUB	14:46
4	214512	719/310,315,316,328.ccls. and pars\$3 or	USPAT;	2004/08/05
•		separat\$3 same (media or audio or video)	US-PGPUB	14:45
5	258	719/310,315,316,328.ccls. and ((pars\$3 or	USPAT;	2004/08/05
		separat\$3) same (media or audio or	US-PGPUB	14:45
		video))		
6	62	1	USPAT;	2004/08/05
		separat\$3) same (media or audio or video)	US-PGPUB	14:46
7	69	same (single or instance)) 719/310,315,316,328.ccls. and instance	USPAT;	2004/08/05
,		and single near8 (media or audio or	US-PGPUB;	14:47
		video)	EPO; JPO	
8	62	719/310,315,316,328.ccls. and ((pars\$3 or	USPAT;	2004/08/05
		separat\$3) same (media or audio or video)	US-PGPUB;	14:57
		same (single or instance))	EPO; JPO	
9	0	395/551,650,835,200.ccls.	USPAT;	2004/08/05
-			US-PGPUB; EPO; JPO	14:48
10	0	395.ccls.	USPAT;	2004/08/05
		030.0013.	US-PGPUB;	14:48
			EPO; JPO	
11	1	("5913038").PN.	USPAT	2004/08/05
	_			14:56
12	8	("5333299" "5388264" "5390138"	USPAT	2004/08/05
		"5487167" "5581706" "5642477" "5712976" "5761417").PN.		14:53
13	8	(US-5333299-\$ or US-5761417-\$ or	USPAT	2004/08/05
13	ľ	US-5712976-\$ or US-5642477-\$ or	OSIIII	14:55
		US-5581706-\$ or US-5487167-\$ or		
		US-5390138-\$ or US-5388264-\$).did.		
14	2551	709/201,231.ccls.	USPAT;	2004/08/05
			US-PGPUB;	14:57
15	176	709/201,231.ccls. and ((pars\$3 or	EPO; JPO USPAT;	2004/08/05
13	1,0	separat\$3) same (media or audio or video)	US-PGPUB;	14:57
		same (single or instance))	EPO; JPO	
16	15		USPAT;	2004/08/05
		same (media or audio or video) same	US-PGPUB;	14:57
17	1	(single or instance))	EPO; JPO	2004/00/05
17	17	381/119.ccls. and ((pars\$3 or separat\$3)	USPAT; US-PGPUB;	2004/08/05 14:57
		same (media or audio or video) same (single or instance))	EPO; JPO	14.0/
18	0	707/104,104.ccls. and ((pars\$3 or	USPAT;	2004/08/05
-		separat\$3) same (media or audio or video)	US-PGPUB;	14:58
		same (single or instance))	EPO; JPO	
19	10	713/400.ccls. and ((pars\$3 or separat\$3)	USPAT;	2004/08/05
		same (media or audio or video) same	US-PGPUB;	14:58
20	12815	(single or instance)) filter and ((pars\$3 or separat\$3) same	EPO; JPO USPAT;	2004/08/05
Z U	12815	(media or audio or video) same (single or	US-PGPUB;	14:58
		instance))	EPO; JPO	
21	2610	filter same ((pars\$3 or separat\$3) same	USPAT;	2004/08/05
		(media or audio or video) same (single or	US-PGPUB;	14:59
		instance))	EPO; JPO	0004/00/05
22	280	filter same ((pars\$3 or separat\$3) same	USPAT;	2004/08/05
		(media or audio or video) same (single or instance)) and project	US-PGPUB; EPO; JPO	15:00
23	32		USPAT;	2004/08/05
-		(media or audio or video) same (single or	US-PGPUB;	15:00
		instance)) and (project near8 (media or	EPO; JPO	
		multimedia))		
	141	filter adj graph	USPAT;	2004/08/05
	L		US-PGPUB	14:42

-	75	(filter adj graph) and audio\$5 and video\$5	USPAT; US-PGPUB	2003/12/07 13:04
-	23	((filter adj graph) and audio\$5 and	USPAT;	2003/12/07
_	19		US-PGPUB USPAT;	13:04 2003/12/07
_	17	video\$5) and project) and engine ((((filter adj graph) and audio\$5 and	US-PGPUB USPAT;	13:04 2003/12/07
		video\$5) and project) and engine) and pars\$5	US-PGPUB	13:14
	1	("6611215").PN.	USPAT	2003/12/07 13:14
-	454	(audio and video and (pars\$5 or filter\$3) and (engine or render\$5)) and (pars\$ same	USPAT; US-PGPUB	2003/12/07 13:23
_	20	video same audio) ((audio and video and (pars\$5 or filter\$3) and (engine or render\$5)) and (pars\$ same video same audio)) and	USPAT; US-PGPUB	2003/12/07 14:08
_	654	(filter\$5 near5 chain\$5) filter and pars\$5 and video and audio and	USPAT	2003/12/07
_	_ 14	(engine or render\$3) (filter and pars\$5 and video and audio	USPAT	14:12 2003/12/07
-		and (engine or render\$3)) and (pars\$5 same filter same audio same video)		15:33
_	9	5913038.URPN.	USPAT	2003/12/07 14:19
-	33	pars\$3 same filter\$3 same video same audio	USPAT	2003/12/09 14:38
-	1	("5913038").PN.	USPAT	2003/12/31 20:30
-	28	pars\$3 near2 audio near2 video	USPAT	2004/01/06
-	7	(pars\$3 near2 audio near2 video) and filter\$3	USPAT	2004/01/06 20:43
_	0	"14" and (pars\$3 near2 audio near2 video)	USPAT	2004/01/06
_	60	split\$3 near2 audio near2 video	USPAT	2004/04/04
-	1544	audio and video and engine and edit\$3	USPAT	2004/01/06 21:02
_	762	(audio and video and engine and edit\$3) and filter\$3	USPAT	2004/01/06 21:02
_	117	((audio and video and engine and edit\$3) and filter\$3) and render\$3 and seek\$3	USPAT	2004/01/06 21:03
	13	<pre>(((audio and video and engine and edit\$3) and filter\$3) and render\$3 and seek\$3) and ((pars\$3 or split\$3) near5 (audio or</pre>	USPAT	2004/01/06 21:11
_	51	video)) media adj processing adj system	USPAT	2004/01/06 21:12
-	0	((media adj processing adj system) not microsoft) and (pars\$3 near2 audio near2 video)	USPAT	2004/01/06 21:12
_	43	(media adj processing adj system) not microsoft	USPAT	2004/01/06 21:13
-	579	((multi adj media) or multimedia) near processing	USPAT	2004/01/06 21:13
_	1	1	USPAT	2004/04/04 18:56
_	1	731491.ap.	US-PGPUB	2004/04/04 17:45
_	1	731560.ap.	US-PGPUB	2004/04/04
_	4	media near8 project near8 matrix	USPAT	2004/04/04
-	1416	filter near3 graph	USPAT	2004/04/04 18:58
-	1	filter near3 graph near5 matrix	USPAT	2004/04/04
_	8	("5327227" "5400187" "5913038" "6396421" "6411225" "6462682"	USPAT	2004/04/04
	<u> </u>	"6512468" "6518894").PN.		10.00

-	11	5913038.URPN.	USPAT	2004/04/04 19:03
_	28675	matrix and filter and media and source	USPAT	2004/04/04
	14059	(matrix and filter and media and source)	USPAT	2004/04/04
-	92	((matrix and filter and media and source) and chain) and (media near8 source) and (matrix near8 filter)	USPAT	2004/04/04
_	3	(((matrix and filter and media and source) and chain) and (media near8 source) and (matrix near8 filter)) and	USPAT	2004/04/04 19:16
_	133	project minimiz\$3 near8 (media or audio or video) near8 source	USPAT	2004/04/04
	42		USPAT	2004/04/04 19:17
-	9	minimiz\$3 near8 (media or audio or video) near8 source and filter and (single near2 source)	USPAT	2004/04/04 19:18
-	178	minimiz\$3 near8 source near8 filter	USPAT	2004/04/04 19:18
-	3	minimiz\$3 near8 source near8 filter same media	USPAT	2004/04/04 19:19
-	1	("6209041").PN.	USPAT	2004/04/04 19:22
-	1	("6205492").PN.	USPAT	2004/04/04
-	6	"6212574"	USPAT	2004/04/04
_	1	6212574.pn.	USPAT	2004/04/04
_	1	("6389483").PN.	USPAT USPAT	2004/04/04 19:28 2004/04/04
_	24	("6671742").PN. media near8 project same filter	USPAT	19:29
	4	(media near8 project same filter) and	USPAT	19:30
_	44	(single near5 source) media near8 project same filter	USPAT; US-PGPUB; EPO; JPO	19:30 2004/04/04 19:30
-	4	(media near8 project same filter) and (single near5 source)	USPAT	2004/04/04
-	4	1 1	USPAT	2004/04/04
-	351	media near8 project	USPAT	2004/04/04 20:19
	145	media near8 project and filter	USPAT	2004/04/04 20:19
-	14	media near8 project near8 filter	USPAT	2004/04/04 20:19
-	2	(audio or video) near8 project near8 filter	USPAT	2004/04/04 20:20
-	1312	single near8 (audio or video) near8 source	USPAT; US-PGPUB;	2004/04/04 20:25
_	2	single near8 (audio or video) near8 source near8 pars\$3	EPO; JPO USPAT; US-PGPUB; EPO; JPO	2004/04/04 20:26
_ ·	11	single near8 (audio or video) near8 instance near8 source	USPAT; US-PGPUB; EPO; JPO	2004/04/04 20:31
_	9	MPEG near8 instance near8 source	USPAT; US-PGPUB; EPO; JPO	2004/04/04 20:33
-	7	MPEG near8 source near8 pars\$3	USPAT; US-PGPUB; EPO; JPO	2004/04/04 21:20

•				
_	833287	minimiz\$3 or reduc\$3 near8 source near8 instances near8 object	USPAT; US-PGPUB;	2004/04/04 21:21
-	4	(minimiz\$3 or reduc\$3) near8 source near8 instances near8 object	EPO; JPO USPAT; US-PGPUB;	2004/04/04 21:21
-	329	(minimiz\$3 or reduc\$3) near8 instances near8 object	EPO; JPO USPAT; US-PGPUB;	2004/04/04 21:21
-	90	(minimiz\$3 or reduc\$3) near8 instances near8 object and (audio or video)	EPO; JPO USPAT; US-PGPUB;	2004/04/04 21:21
-	47	(minimiz\$3 or reduc\$3) near8 instances near8 object and (audio or video) and	EPO; JPO USPAT; US-PGPUB;	2004/04/04 21:22
-	5	filter (minimiz\$3 or reduc\$3) near8 instances near8 object and ((audio or video) same	EPO; JPO USPAT; US-PGPUB;	2004/04/04 21:25
_	16956	filter) (media or audio or video) near8 matrix	EPO; JPO USPAT; US-PGPUB;	2004/04/04 21:25
-	7204	(media or audio or video) near8 matrix and filter	EPO; JPO USPAT; US-PGPUB;	2004/04/04 21:25
_	4711	(media or audio or video) near8 matrix and filter and object	EPO; JPO USPAT; US-PGPUB;	2004/04/04 21:26
-	155	(media or audio or video) near8 matrix and filter and object and MPEG	EPO; JPO USPAT; US-PGPUB;	2004/04/04 21:26
-	4	(media or audio or video) near8 matrix near8 filter and object and MPEG	EPO; JPO USPAT; US-PGPUB;	2004/04/04 21:56
	458	multimedia near8 instance	EPO; JPO USPAT; US-PGPUB;	2004/04/04 21:57
-	1	multimedia near8 instance near8 (minimi\$5 or reduc\$5)	EPO; JPO USPAT; US-PGPUB;	2004/04/04 22:00
-	21	multimedia near8 instance near8 object	EPO; JPO USPAT; US-PGPUB;	2004/04/04 22:00
-	0	multimedia near8 instance near8 object near8 (minimi\$5 or reduc\$5)	EPO; JPO USPAT; US-PGPUB;	2004/04/04 22:01
-	5	multimedia near8 switch\$3 near8 matrix	EPO; JPO USPAT; US-PGPUB;	2004/04/04 22:06
-	31	minimiz\$5 near5 object near5 instance	EPO; JPO USPAT; US-PGPUB;	2004/04/04 22:24
-	6	multimedia near8 source near8 instance	EPO; JPO USPAT; US-PGPUB;	2004/04/04 22:25
_	216	multimedia near8 source near8 process\$3	EPO; JPO USPAT; US-PGPUB;	2004/04/04 22:25
-	33	multimedia near8 source near8 multiplex\$3	EPO; JPO USPAT; US-PGPUB;	2004/04/04 22:26
_	0	multimedia near8 source near8 (de adj multiplex\$3)	EPO; JPO USPAT; US-PGPUB;	2004/04/04 22:26
-	5	multimedia near8 source near8 (demultiplex\$3)	EPO; JPO USPAT; US-PGPUB;	2004/04/04 22:27
-	10	multimedia near8 source near8 pars\$3	EPO; JPO USPAT; US-PGPUB;	2004/04/04 23:36
_	10200	filter near8 multiplex\$5	EPO; JPO USPAT; US-PGPUB; EPO; JPO	2004/04/04 23:39

_	8	filter near8 multiplex\$5 near8 graph	USPAT;	2004/04/04
			US-PGPUB;	23:42
			EPO; JPO	
-	115	filter near8 multiplex\$5 near8 object	USPAT;	2004/04/04
			US-PGPUB;	23:42
			EPO; JPO	
-	254	filter near8 multiplex\$5 near8 (audio	or USPAT;	2004/04/04
		video)	US-PGPUB;	23:42
			EPO; JPO	ŀ
-	1	filter near8 multiplex\$5 near8 (audio	or USPAT;	2004/04/04
		video) same pin	US-PGPUB;	23:43
			EPO; JPO	



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1 Multimedia description framework (MDF) for content description of audio/video documents

Michael J. Hu, Ye Jian

August 1999 Proceedings of the fourth ACM conference on Digital libraries

Full text available: pdf(206.64 KB) Additional Information: full citation, references, index terms

Keywords: content description, media search and retrieval, meta-data

Papers: mmdump: a tool for monitoring internet multimedia traffic Jacobus van der Merwe, Ramón Cáceres, Yang-hua Chu, Cormac Sreenan October 2000 ACM SIGCOMM Computer Communication Review, Volume 30 Issue 5

Full text available: pdf(1.14 MB)

Additional Information: full citation, abstract, references, citings

Internet multimedia traffic is increasing as applications like streaming media and packet telephony grow in popularity. It is important to monitor the volume and characteristics of this traffic, particularly because its behavior in the face of network congestion differs from that of the currently dominant TCP traffic. To monitor traffic on a high-speed link for extended periods, it is not practical to blindly capture all packets that traverse the link. We present mmdump, a tool that parse ...

Automatic presentation of multimedia documents using relational grammars L. Weitzman, Kent Wittenburg



October 1994 Proceedings of the second ACM international conference on Multimedia

Full text available: pdf(966.47 KB)

Additional Information: full citation, abstract, references, citings, index

This paper describes an approach to the automatic presentation of multimedia documents based on parsing and syntax-directed translation using Relational Grammars. This translation is followed by a constraint solving mechanism to create the final layout. Grammatical rules provide the mechanism for mapping from a representation of the content of a presentation to forms that specify the media objects to be realized. These realization forms include sets of spatial and temporal constraints betwe ...

4 Using local optimality criteria for efficient information retrieval with redundant information filters

Neil C. Rowe

April 1996 ACM Transactions on Information Systems (TOIS), Volume 14 Issue 2

Full text available: mpdf(2.21 MB)

Additional Information: full citation, abstract, references, index terms

We consider information retrieval when the data—for instance, multimedia—is computationally expensive to fetch. Our approach uses "information filters" to considerably narrow the universe of possibilities before retrieval. We are especially interested in redundant information filters that save time over more general but more costly filters. Efficient retrieval requires that decisions must be made about the necessity, order, and concurrent processing of proposed filte ...

Keywords: Boolean algebra, conjunction, filters, natural language, optimization, queries

Model-driven development of Web applications: the AutoWeb system Piero Fraternali, Paolo Paolini

October 2000 ACM Transactions on Information Systems (TOIS), Volume 18 Issue 4

Full text available: pdf(6.94 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

Keywords: HTML, WWW, application, development, intranet, modeling

6 XIRQL: An XML query language based on information retrieval concepts Norbert Fuhr, Kai Groβjohann April 2004 ACM Transactions on Information Systems (TOIS), Volume 22 Issue 2

Full text available: pdf(281.91 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

XIRQL ("circle") is an XML query language that incorporates imprecision and vagueness for both structural and content-oriented query conditions. The corresponding uncertainty is handled by a consistent probabilistic model. The core features of XIRQL are (1) document ranking based on index term weighting, (2) specificity-oriented search for retrieving the most relevant parts of documents, (3) datatypes with vague predicates for dealing with specific types of content and (4) structural vagueness f ...

Keywords: Path algebra, XML, XQuery, probabilistic retrieval, ranked retrieval, vague predicates

7 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Full text available: pdf(4.21 MB)

Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

Path sharing and predicate evaluation for high-performance XML filtering Yanlei Diao, Mehmet Altinel, Michael J. Franklin, Hao Zhang, Peter Fischer



December 2003 ACM Transactions on Database Systems (TODS), Volume 28 Issue 4

Full text available: pdf(543.40 KB) Additional Information: full citation, abstract, references, index terms

XML filtering systems aim to provide fast, on-the-fly matching of XML-encoded data to large numbers of query specifications containing constraints on both structure and content. It is now well accepted that approaches using event-based parsing and Finite State Machines (FSMs) can provide the basis for highly scalable structure-oriented XML filtering systems. The XFilter system [Altinel and Franklin 2000] was the first published FSM-based XML filtering approach. XFilter used a separate FSM per pa ...

Keywords: Nondeterministic Finite Automaton, XML filtering, content-based matching, nested path expressions., path sharing, predicate evaluation, structure matching

Video parsing, retrieval and browsing: an integrated and content-based solution H. J. Zhang, C. Y. Low, S. W. Smoliar, J. H. Wu January 1995 Proceedings of the third ACM international conference on Multimedia Full text available: htm(51.17 KB) Additional Information: full citation, references, citings, index terms



Keywords: database, multimedia, video browsing, video indexing, video parsing, video retrieval

10 A multi-paradigm querying approach for a generic multimedia database management system



Ji-Rong Wen, Qing Li, Wei-Ying Ma, Hong-Jiang Zhang March 2003 **ACM SIGMOD Record**, Volume 32 Issue 1

Full text available: pdf(524.08 KB) Additional Information: full citation, abstract, references

To truly meet the requirements of multimedia database (MMDB) management, an integrated framework for modeling, managing and retrieving various kinds of media data in a uniform way is necessary. MediaLand is an experimental MMDB platform being developed at *Microsoft Research Asia* for users with different levels of experiences and expertise to manage and search multimedia repositories easily, efficiently, and cooperatively. Key features of MediaLand include a uniform data model for describi ...

Keywords: media independence, multi-paradigm querying, multimedia database management, uniform data modeling

11 Network support for mobile multimedia using a self-adaptive distributed proxy Zhuoqing Morley Mao, Hoi-sheung Wilson So, Byunghoon Kang January 2001 Proceedings of the 11th international workshop on Network and operating systems support for digital audio and video



Full text available: pdf(212.65 KB) Additional Information: full citation, abstract, references, index terms

Recent advancements in video and audio codec technologies~(e.g., RealV ideo [18] make multimedia streaming possible across a wide range of network conditions. With an increasing trend of ubiquitous connectivity, more and more areas have overlapping coverage of multiple wired and wireless networks. Because the best network service changes as the user moves, to provide good multimedia application performance, the service needs to adapt to user movement as well as network and computational res ...

12 <u>Applications: Wide-area information access to multimedia historical sources</u> Tim Mills, Ken Moody



September 1996 Proceedings of the 7th workshop on ACM SIGOPS European workshop:

Systems support for worldwide applications

Full text available: pdf(713.74 KB) Additional Information: full citation, abstract, references

An object-oriented model has been developed for heterogeneous multimedia data; this model underlies Cobra, a content-based retrieval architecture, which allows quick construction of powerful tools for wide area information access. The system is to be evaluated through case studies, the first of which is a search engine for historical records.

13 Flavor: a language for media representation

Alexandros Eleftheriadis

November 1997 Proceedings of the fifth ACM international conference on Multimedia

Full text available: pdf(1.35 MB) Additional Information: full citation, references, citings, index terms

14 Natural-language retrieval of images based on descriptive captions Eugene J. Guglielmo, Neil C. Rowe

July 1996 ACM Transactions on Information Systems (TOIS), Volume 14 Issue 3

Additional Information: full citation, abstract, references, citings, index Full text available: ndf(572.05 KB) terms, review

We describe a prototype intelligent information retrieval system that uses natural-language understanding to efficiently locate captioned data. Multimedia data generally require captions to explain their features and significance. Such descriptive captions often rely on long nominal compounds (strings of consecutive nouns) which create problems of disambiguating word sence. In our system, captions and user queries are parsed and interpreted to produce a logical form using a detailed theory ...

Keywords: captions, multimedia database, type hierarchy

15 Poster: Overview of natural language processing of captions for retrieving multimedia data



Eugene J. Guglielmo, Neil C. Rowe

March 1992 Proceedings of the third conference on Applied natural language processing

Full text available: Total pdf(221.27 KB)

Publisher Site

Additional Information: full citation, abstract, references

This paper briefly describes the current implementation status of an intelligent information retrieval system, MARIE, that employs natural language processing techniques. Descriptive captions are used to identify photographic images concerning various military projects. The captions are parsed to produce a logical form from which nouns and verbs are extracted to form the primary keywords. User queries are also specified in natural language. A twophase search process employing coarse-grain and f ...

16 CLUES: dynamic personalized message filtering

Matthew Marx, Chris Schmandt

November 1996 Proceedings of the 1996 ACM conference on Computer supported cooperative work

Full text available: ndf(907.89 KB) Additional Information: full cliation, references, citings, index terms

Keywords: electronic mail, filtering, messaging, personal information management, voice mail

17 Evaluating HyTime: an examination and implementation experience John F. Buford



March 1996 Proceedings of the the seventh ACM conference on Hypertext

Full text available: pdf(1.15 MB)

Additional Information: full citation, references, citings, index terms

Keywords: HyTime, hypermedia models, hypermedia standards

18 An analysis of XML database solutions for the management of MPEG-7 media descriptions



Utz Westermann, Wolfgang Klas

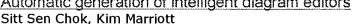
December 2003 ACM Computing Surveys (CSUR), Volume 35 Issue 4

Full text available: pdf(448.76 KB) Additional Information: full citation, abstract, references, index terms

MPEG-7 constitutes a promising standard for the description of multimedia content. It can be expected that a lot of applications based on MPEG-7 media descriptions will be set up in the near future. Therefore, means for the adequate management of large amounts of MPEG-7-compliant media descriptions are certainly desirable. Essentially, MPEG-7 media descriptions are XML documents following media description schemes defined with a variant of XML Schema. Thus, it is reasonable to investigate curren ...

Keywords: MPEG-7, XML database systems, multimedia databases

19 Automatic generation of intelligent diagram editors





Full text available: pdf(1.43 MB)

Additional Information: full citation, abstract, references, index terms

The intelligent diagram is a recent metaphor for diagramming in which the underlying graphic editor parses the diagram as it is being constructed, performing error correction and collecting geometric constraints that capture the relationships between diagram components. During diagram manipulation a constraint solver uses these geometric constraints to maintain the diagram's semantics. We introduce the Penguins system. This automates the development of graphical editors that support the i ...

Keywords: Constraint multi-set grammars, constraint solving, diagram interaction, diagram parsing, intelligent diagram, pen-based computing

20 Graph-based code selection techniques for embedded processors October 2000 ACM Transactions on Design Automation of Electronic Systems (TODAES), Volume 5 Issue 4



Full text available: mpdf(356,83 KB)

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Code selection is an important task in code generation for programmable processors, where the goal is to find an efficient mapping of machine-independent intermediate code to processor-specific machine instructions. Traditional approaches to code selection are based on tree parsing which enables fast and optimal code selection for intermediate code given as a set of data-flow trees. While this approach is generally useful in compilers for generalpurpose processors, it may lead to poor code ...

Keywords: SIMD instructions, code selection, data-flow graphs, embedded processors, irregular data paths

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